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ATHENS COLLEGE DIVISION OF GRADUATE STUDIES/

MASTER OF ARTS
IN TEACHING

William A. Sherr



ACCREDITATION OF THE COLLEGE

Southern Association of Colleges and Schools

The Association of American Colleges

The American Council on Education

Approved by Alabama State Department of
Education for training of elementary and
secondary teachers.

Master of Arts
In Teaching

BULLETIN OF THE
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ATHENS COLLEGE
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William A. Short

1966

CALENDAR

1967

1966

JANUARY							FEBRUARY							MARCH							APRIL								
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1967

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PURPOSES OF PROGRAM

The Master of Arts in Teaching Program at Athens College enables in-service teachers and others to earn a master's degree, improve professional competence, and, for certified teachers, to raise the level of their certificates. It also presents the holders of bachelor's degrees with the opportunity to acquire a postgraduate degree.

THE CURRICULUM

In order to qualify for the MAT degree, the student must earn credit in 36 hours of course study, 18 hours of which must be in 500 courses. Furthermore, 18 hours of credit must be in the student's major—English, mathematics, chemistry, history, social studies, general sciences, physical education, or elementary education—and 9 hours in professional education courses. If a teacher has less than three years of experience in classroom teaching, he may be asked to go through a period of supervised internship—or the equivalent—for which training he will receive 3 hours' credit. The student is expected to use the remaining hours—six to nine—for related electives of interest to him personally and professionally.

All students are required to complete a minimum of eighteen hours of 500-level courses. Students in the program may complete the remaining eighteen hours of work in 400-level courses. Such 400-level courses *will* require of the graduate student additional academic work to bring such courses to graduate level.

REQUIREMENTS FOR ADMISSION

Applicants for admission as regular graduate students in the Athens College MAT Program must have 1) a baccalaureate degree from an accredited college or university (on occasion a student from a non-accredited institution may be admitted conditionally by the Graduate Council), 2) acceptable scores on the Graduate Record Examination, National Teacher's Examination, or the Miller's Analogy Test, and 3) the recommendation of two responsible citizens, one of whom is a member of the student's proposed discipline, and one of whom is a member of some profession. Students not meeting one or more of the above requirements may be admitted on condition. Miller's Analogies Tests are given by Athens College upon individual arrangement. The test fee is \$7.50 payable to Athens College at the time the test is taken.

HOW TO APPLY FOR ADMISSION

1) Write the Director of Graduate Studies, Athens College, for an application form.

2) Complete and return the form to the Director of Graduate Studies along with a \$15 application fee, a photograph (head and shoulders wallet size), two letters of recommendation, and appropriate test scores.

3) Have two transcripts of all prior college and graduate school study sent to the Director of Graduate Studies.

CLASSIFICATION OF GRADUATE STUDENTS

All students enrolled in the program are classified as regular students. All are required to meet general and specific standards and courses. A regular student need not be certified to teach nor be required to fulfill teacher classification to be qualified to pursue the course of study leading to the MAT degree.

ADMISSION TO CANDIDACY

Admission to candidacy for the degree of Master of Arts in Teaching will be granted only after the student 1) shows the ability to do work on a graduate level,

2) removes any deficiency (from his undergraduate records) that would disqualify him from pursuing courses in his field of graduate concentration, 3) demonstrates to the satisfaction of the Graduate Faculty a high quality of oral and verbal abilities in English, 4) completes satisfactorily at least twenty-four hours in the graduate program, 5) makes a formal application to the Director of Graduate Studies, Athens College, for admission to candidacy for the degree of Master of Arts in Teaching. (Form may be obtained from the Director of Graduate Studies.)

STATE DEPARTMENT CERTIFICATION

Students not certified for teaching, may, if they so elect, be qualified for a Class B elementary or secondary certificate by meeting the minimum requirements for the same. Such student, however, must be eligible to receive the MAT degree prior to application for certification.

RESIDENCE

No student may be granted a MAT degree from Athens College until he has spent an academic year (or the equivalent, eighteen semester hours, in summer sessions or part-time study) on the Athens campus. All students must have completed at least one summer trimester or one other trimester of full-time residence work. Full-time residence work is interpreted as nine trimester hours in one trimester under this provision.

TIME LIMIT

Unless the student fulfills the requirements for the MAT degree within five years after his entrance into the Program, he may have imposed on him additional requirements for graduation. The Graduate Council may, at its discretion, grant time extensions to the student for good cause, but in no case shall he be allowed more than seven concurrent years for completing the degree.

DROP AND ADD PROCEDURE

A student who registers for a course of study is expected to pursue the course to its completion. A student must officially drop any course he elects to drop at least one week prior to the midterm examination. Such courses will be dropped with grade of "W."

In order for a student to drop a course after midterm, a written request should be directed to the Graduate Council giving circumstances or reasons for the request. In cases of emergency or hardship, if approved by the Council, the grade will be "W." In other cases, the Council will determine the grade and cause it to be recorded on the student's permanent record. No passing grade, however, will be allowed for courses not completed.

GRADES

A "B" average in all graduate work is expected of the graduate student. Although no grade lower than a "C" will be applied toward the MAT degree, all grades will be used to compute the student's grade average. Should the student's grade average be less than a "B" at the half-way point (18 hours' work), he must continue on probation, until such time as he is cleared or dropped from the Program. No student will be permitted to graduate while in probationary status. No provision is made to allow an incomplete (I) grade at the graduate level.

Grades will be reported directly to the student twice each term: once at midterm and once after final examinations. Appeals for grade reconsideration must be made in writing to the Graduate Council. Report of the Council is final.

TRANSFER CREDITS

Six hours of "B" or better graduate work (either residence or extension) may be

transferred to apply toward the MAT degree at Athens College. No credits earned by correspondence study are acceptable as transfer credits.

TRIMESTER PLAN

The Athens College MAT Program operates on a Saturday-Evening-Summer Trimester basis. In nearly all cases, the student shall take one or two three-hour courses in the fall or winter trimester respectively. In the summer, he should take nine trimester hours of work. Consequently, the required 36 hours of work can be finished within two years. The graduate students who are not in-service teachers will, naturally, be able to finish in less time. A normal span of time for this type of student is one year plus a summer session.

HOURS OF INSTRUCTION: Evening classes are scheduled to meet from 6:00 P.M. to 9:00 P.M. during the weekdays and from 9:00 A.M. to 12:00 Noon on Saturday.

COMPREHENSIVE EXAMINATION

A comprehensive examination, either oral or written or both, shall be passed by the candidate covering at least the field of concentration.

UNDERGRADUATE DEFICIENCIES

Should the graduate student decide to specialize in an area he did not major in as an undergraduate, he must take additional undergraduate course work to qualify himself for graduate studies. Such determination will be made by the Head Professor of the division of instruction based on student records and personal interview.

THESIS AND LANGUAGE REQUIREMENTS

The MAT degree at Athens College does not require that the student write a thesis or pass a foreign language examination. A student, however, may with the consent of the Head of his instructional department, elect to write a Master's thesis.

FEES AND EXPENSES

Tuition and fees for the Graduate Division are as follows:

Application Fee.....	\$ 15.00
Tuition (per trimester hour if 9 hours or less).....	\$ 38.50
(per trimester hour if more than 9 hours).....	\$ 33.50
Room (per trimester).....	\$150.00
Board (per trimester).....	\$265.00
Transcripts (each after first request).....	\$ 1.00
Graduation Fee.....	\$ 25.00
Drop and Add Fee.....	\$ 5.00

REFUNDS

The College must engage its Faculty and assign resident home space in advance of each trimester, in accordance with the number of students who have indicated intent to enroll. When a student voluntarily withdraws from the college, that leaves a vacancy which cannot be filled. The following rules concerning refunds protect the College from losses when students withdraw. Exceptions will be made only under emergency conditions determined by the College. All refunds are figured from first day of registration.

TUITION: A student who voluntarily withdraws from the college will be held for tuition in accordance with the following schedule each trimester. Before the end of the fourth week, one-half tuition will be refunded. Thereafter no refund will be made. No fees are refundable.

BOARD: Refunds for board are made in the following manner: $\frac{1}{4}$ is retained for first two weeks, $\frac{1}{2}$ is retained for first month. All is retained after first month.

ROOM: No refund will be made for the trimester from room rental.

SPECIAL CIRCUMSTANCES: The College reserves the right to exclude, at any time, students whose conduct renders them undesirable members of the College community. In such cases, the tuition and fees due the College for that trimester are not refunded, and other charges are handled according to the schedule listed.

DEPARTMENT OF GENERAL SCIENCE (GS)

This curriculum is restricted to those students who are public school teachers holding certification to teach or who are working toward that certification.

The course of study requires that each student successfully complete the following courses in science:

Mathematics 500. Mathematics for Secondary School Teachers. Basic mathematical concepts of modern algebra. Entrance by permission.

3 Hours

Biology 510. Advanced Topics in Botany. Discussion of selected, current topics concerning the morphology and physiology of plants. Although morphological topics will be discussed in detail, the course will be physiologically oriented. Emphasis will be placed on higher plants and their relationship to mankind. Lecture and laboratory. Prerequisite: Consent of professor.

4 Hours

—or—

Biology 520. Advanced Topics in Zoology. A consideration of selected, current topics concerning the morphology and physiology of animals. The human organism will be the central theme of the course, but with adequate enough discussion of other organisms to substantiate the entire course. Lecture and laboratory. Prerequisite: Consent of professor.

4 Hours

Chemistry 500. Advanced General Chemistry. Review of fundamental chemical laws, a consideration of modern concepts of chemistry as based upon the electron configuration of the atom. Lecture and laboratory. Consent of professor.

4 Hours

Physics 500. Advanced General Physics. Special topics in modern and classical physics of special interest to the secondary school teacher. Lecture and laboratory. Prerequisite: Consent of professor.

4 Hours

In addition to the above courses the student must choose three of the following four seminar credits in Biology and Chemistry.

Biology 540-541. Seminar. Required of all biology majors. Involves presentation of oral reports of recent developments in biology or of a certain topic of interest at the time. It will require the extensive use of library resources in finding the information for the report.

1 Hour each

Chemistry 501-502. Seminar. This course involves the presentation of oral reports by the student on assigned topics. Report preparation and library research constitutes an important part of the course.

1 Hour each

DEPARTMENT OF BIOLOGY (BI)

A major in Biology must complete a minimum of 18 trimester hours in biology,

9 of which must be 500 level courses. It is highly recommended that a student take most or all of his electives in chemistry.

A minor in Biology must complete a minimum of 9 trimester hours in Biology. At least one course (4 hours) must be at the 500 level.

Biology 301. Genetics. An introduction to principles of heredity and variation. Some consideration of the chemical nature of the gene and modern aspects of genetics and eugenics. *Drosophila* studies will constitute most of the lab work. Prerequisite: 20 hours in biology; organic chemistry; and college algebra.

4 Hours

Biology 310. Morphogenesis of Vertebrates. An integrated study of vertebrate embryology and comparative anatomy. Representatives of several vertebrate classes will be studied. The study will proceed from germ cell maturation through organogenesis and development of the body systems. Prerequisites: Biology 211 and preferably Biology 301.

4 Hours

Biology 410. Independent Study. Selection of a problem which will be researched using carefully controlled scientific methods. The problem in some cases may be primarily a library project. The student will receive whatever help from the professor that is necessary and will meet regularly with the professor to discuss the progress of the project. A problem may extend over a two-semester period before completed. Investigation must be carefully written in a standard thesis form. Prerequisite: 24 hours in biology and consent of professor.

1-4 Hours

Biology 420. Biology Seminar. A review of some major biological topics, discussion of the most recent developments in the field or selected fields, use of bibliographic methods in finding information, participation in discussion, and presentation of oral reports.

1 Hour

Biology 510. Advanced Topics in Botany. Discussion of selected, current topics concerning the morphology and physiology of plants. Although morphological topics will be discussed in detail, the course will be physiologically oriented. Emphasis will be placed on higher plants and their relationship to mankind. Lecture and laboratory. Prerequisite: Consent of professor.

4 Hours

Biology 520. Advanced Topics in Zoology. A consideration of selected, current topics concerning the morphology and physiology of animals. The human organism will be the central theme of the course, but with adequate enough discussion of other organisms to substantiate the entire course. Lecture and laboratory. Prerequisite: Consent of professor.

4 Hours

Biology 530. Research in Biology. The approach in this course may be two-fold. First, it may be primarily a library problem on some selected topic. Secondly, it may be a research problem using the scientific method. In both cases, a report written in standard thesis form will be required. In most cases, especially for a research problem, this course may take at least two trimesters to complete. Prerequisite: Consent of professor.

4 Hours

Biology 540-541. Seminar. Required of all biology majors. Involves presentation of oral reports of recent developments in biology or of a certain topic of interest at the time. It will require the extensive use of library resources in finding the information for the report.

1 Hour each

DEPARTMENT OF CHEMISTRY (CH)

A course of study leading to the MAT degree with a major in chemistry requires that 18 of the total 36 hours needed shall be in chemistry. Of these 18 hours, 9 hours must be in courses numbered 500.

Courses for undergraduate or graduate credit.

Chemistry 401. **Industrial Chemical Calculations.** A study of energy and material changes in the chemistry of industrial processes. This course is designed for students who plan to seek employment in chemical industries. Three lecture periods. Prerequisite: Chemistry 223.

3 Hours

Chemistry 402. **Advanced Inorganic Chemistry.** A course dealing with topics of theoretical inorganic chemistry including the periodic table, stereo-chemistry, coordination chemistry and wave mechanics. Three lecture periods. Prerequisite: Chemistry 223, Physics 213 and Mathematics 301.

3 Hours

Chemistry 412. **Advanced Organic Chemistry.** A study of some advanced topics and complex substances of organic chemistry. The laboratory consists of the identification of organic compounds by means of systematic analysis of their reactions and properties. Two lecture periods and two laboratory periods. Prerequisite: Chemistry 312.

3 Hours

Chemistry 413. **Biochemistry.** A study of proteins, carbohydrates, lipids and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations are included. Three lecture periods. Prerequisite: Chemistry 312.

3 Hours

Chemistry 421-422. **Physical Chemistry.** An application of the laws and principles of physics and mathematics to the study of phenomena and concepts such as chemical thermodynamics, equilibria, kinetics and molecular structure. Three lecture periods and one laboratory period. Prerequisite: Chemistry 223, Physics 213, and Mathematics 301.

3 Hours

Chemistry 471-472. **Chemistry Seminar.** Student presentations of written and oral reports of selected advanced topics.

1 Hour each

Courses for graduate credit only.

Chemistry 510. **Special Topics in Analytical Chemistry.** Consideration of modern analytical methods, underlying theories of analytical chemistry and other advanced topics. Three lecture periods. Prerequisite: Consent of professor.

3 Hours

Chemistry 520. **Special Topics in Organic Chemistry.** A study of the chemistry of compound formation, mechanisms and conditions for reaction. Three lecture periods. Prerequisite: Consent of professor.

3 Hours

Chemistry 530. **Special Topics in Inorganic Chemistry.** The chemistry of such advanced topics as complex compounds, non-aqueous systems and others. Three lecture periods. Prerequisite: Consent of professor.

3 Hours

DEPARTMENT OF ENGLISH (EH)

In order to fulfill the requirements for a Master of Arts in Teaching with a major in English, the graduate student must complete satisfactorily eighteen trimester hours

of course work in English in addition to nine hours of course work in education and nine hours of course work in electives. Nine hours of the course work in English must include these 500-level courses: English 501, 510, and 520. The 400-level courses which may apply toward the remaining nine hours of credit are these: English 424, English 425, English 452, and English 460. Schedule of electives must be approved by the Graduate Faculty of English.

English 424. **Shakespeare.** A study of the comedies and histories of Shakespeare and his contemporaries with an emphasis upon the growth and the development of drama during the Elizabethan period.

3 Hours

English 425. **Shakespeare.** A study of the tragedies of Shakespeare and his contemporaries with an emphasis upon the growth and the development of drama during the Elizabethan period.

3 Hours

English 452. **Chaucer and the Medieval Literature.** A study of Chaucer's *Canterbury Tales* and other works with an introduction to Middle English grammar and pronunciation.

3 Hours

English 460. **Individually Directed Studies in English.** A course of individual study in a specific area of literature with in depth reading and research. The head professor of graduate studies in English must approve the specific areas of study.

3 Hours

English 501. **The History of the English Language.** A survey of the language from Old to Modern English, taking into consideration developments in phonology, morphology, syntax, and vocabulary.

3 Hours

English 510. **Literary Criticism.** Historical perspectives on literary criticism. Readings in modern criticism and the application of specific critical techniques.

3 Hours

English 520. **The History of English Drama.** Studies in English dramatic writings beginning with the early tropes and miracle plays.

3 Hours

EDUCATION COURSES REQUIRED FOR MAT DEGREE

The MAT degree requires nine (9) trimester hours of Professional Education courses at the graduate level. Secondary education majors who are certified are required to take Education 552, and one elective course. Elementary education majors who are certified are required to take Education 533, Education 497, and one elective. Graduate students who are not certified and do not intend to become certified may choose any nine (9) trimester hours they wish provided they have fulfilled the prerequisites as required. Additional non-technical education courses may be devised for those *not* intending certification.

DEPARTMENT OF EDUCATION (ED)

Education 461. **Educational Tests and Measurements.** A course concerned with the nature of measurement. Consideration is given to various types of aptitude, achievement, interest, and personality tests. Practical help is provided school administrators and teachers in instituting and carrying out a testing program in the schools.

3 Hours

Education 497. **The Teaching of Reading: Problems in Diagnostic and Remedial Reading.** A study of major factors in learning to read. Objectives, readiness, abilities needed for silent and oral reading. Methods of word attack, diagnostic and corrective techniques. Testing and materials needed for each level. Prevention, diagnostic, and corrective measures for reading difficulties. Study of investigations and literature in this field.

3 Hours

Education 523. **Curriculum Construction.** A course designed to assist teachers in the construction of a curriculum for an individual school, or for a given grade or group of grades in that school.

3 Hours

Education 533. **Supervision.** This course is designed for teachers, administrators and supervisors. Its purpose is to set forth the modern concept of the team approach, involving all school personnel, in the supervisory function.

3 Hours

Education 541. **Administration.** This course is especially designed for those students who have a deep interest in administrative work, and who have shown special aptitude for this type of work. The topics to be considered are professional ethics; the responsibilities of administrative personnel to teaching personnel; the relationship of the administrative personnel and teachers to school and community; records and supervisory details.

3 Hours

Education 552. **Guidance Services in Secondary Education.** This course is designed for teachers and administrators, as well as those planning to pursue guidance as a career. It includes a general consideration of the philosophy, principles and techniques of all aspects of guidance and pupil personnel work.

3 Hours

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, RECREATION AND ATHLETICS (PE)

The 500 level courses in Health and Physical Education required of majors include Physical Education 511, Physical Education 547, and Physical Education 559. Other 500 courses are elective, but carry major credit.

The 400 level courses in Health and Physical Education which can be completed for graduate credit are Physical Education 400, Physical Education 410, Physical Education 420, and Physical Education 450. Only 9 trimester hours of 400 level courses in Health and Physical Education will count as graduate credit.

Physical Education 400. **School and Community Recreation.** Planning a recreation program for the school and community. Personnel, organization, activities, facilities, and similar phases of an appropriate program are given consideration.

3 Hours

Physical Education 410. **Organization, Administration and Supervision of Health and Physical Education.** Various problems of organization, administration and supervision are identified and discussed. Such elements as types of activities, budget, care of equipment and maintenance of facilities form an important part of the course.

3 Hours

Physical Education 420. **Adapted Physical Education.** Modification of the program to meet individual needs. A study of principles and practices in the application of exercises and activities for specific conditions.

3 Hours

- Physical Education 450. **The School Health Program.** Consideration is given to the organization of the total school health program involving health services, healthful school living, and health instruction. Content and materials suitable for a high school health course are stressed.
3 Hours
- Physical Education 511. **Scientific Foundations of Health and Physical Education.** The principles and philosophy basic to a successful program in health and physical education are analyzed. The need for health and physical education in the modern social order is stressed.
3 Hours
- Physical Education 523. **Administration of Interscholastic Athletics.** Consideration is given to staff, program, budget, health and safety, facilities, and other important phases of administration. Special reference is given to the control of athletics, through national, state, and local organization.
3 Hours
- Physical Education 535. **Teaching Health and Physical Education in Schools.** Various methods and techniques, teaching aids, and materials are discussed and utilized. Includes appropriate activities and essential elements of organizing a program. A practical course for specialists in physical education, classroom teachers, and elementary school administrators.
3 Hours
- Physical Education 547. **Measurement and Evaluation in Health and Physical Education.** The theory of measurement in health and physical education, the selection and administration of appropriate tests, and the interpretation of results by fundamental statistical procedures and studies. Tests measuring health, sports, skills, strength, motor ability, and physical fitness are given special attention.
3 Hours
- Physical Education 559. **Curriculum in Health and Physical Education.** Principles, problems, and procedures in the development of a school program in health and physical education are considered. Essential elements of the curriculum such as activities, facilities, teaching aids, marking, etc., are studied and evaluated.
3 Hours
- Physical Education 561. **Seminar in Health, Safety, Physical Education, Recreation, and Athletics.** Individual and group study of problems arising in the fields of health, safety, physical education, recreation, and athletics. This course is primarily designed for in-service teachers and coaches.
Credit Arranged

DEPARTMENT OF HISTORY (HY)

A student in the Master of Arts in Teaching program, with a major in History is required to complete 18 trimester hours of satisfactory work in History to include the following courses:

Social Science 400, History 435, 501, 502, 503, and 504. Nine hours in related fields (Economics, English Literature, Philosophy, Political Science, Religion, and Sociology) are to be taken as electives or as a minor, and nine hours in education are required.

Students with deficiencies in History, will be required to remedy these. Such deficiencies will be determined by the Head Professor of History.

A graduate student electing History as a minor, must complete the following courses: Social Science 400, History 435 or 504, and 501, 502 or 503 (one of these latter three).

- History 435. **The Middle East.** This course presents the social, political, and economic problems of the Middle East and its relations with other nations.
3 Hours
- History 501. **The American Frontier.** The westward movement in United States history in its relation to the development of the United States, the reasons for this movement, the problems faced by the pioneer, and the frontier influence in United States history is emphasized.
3 Hours
- History 502. **Civil War and Reconstruction.** A study of sectionalism in the United States, of the coming of the Civil War, military campaigns, and the problems of Reconstruction.
3 Hours
- History 503. **Seminar in American History.** Directed research on problems of American history. Findings are presented in formal reports.
3 Hours
- History 504. **Seminar in European History.** Intensive study and special investigation of various phases of European history. Findings are presented in formal class reports.
3 Hours

DEPARTMENT OF MATHEMATICS (MA)

A course of study leading to the MAT degree with a major in mathematics requires that 18 of the total 36 hours needed shall be in mathematics. Of these 18 hours, 9 hours must be in courses numbered 500.

- Mathematics 403. **College Geometry.** Concepts of geometry as a logical system based upon postulates and undefined terms, introduction to the foundations of geometry and fundamental concepts of Euclidean and non-Euclidean geometries. Prerequisite: Mathematics 301.
3 Hours
- Mathematics 421. **Differential Equations.** The fundamental types of elementary differential equations are studied with illustrative examples and exercises showing the usefulness and power of differential equations when applied to different fields. Introduction to Laplace transform. Prerequisite: Mathematics 301.
3 Hours
- Mathematics 422. **Vector Analysis.** An introduction to vector algebra, systems of vectors, differentiation and integration of vectors. Applications. Prerequisite: Mathematics 301.
3 Hours
- Mathematics 424. **Theory of Statistics.** Considers measures of central tendency, measures of dispersion, comparison of distributions, correlation, probability, normal curves and sampling. Prerequisite: Mathematics 301.
3 Hours
- Mathematics 425. **Solid Analytic Geometry.** Deals with direction cosines and direction numbers, planes and lines, surfaces and curves, the general equation of the second degree, coordinate and point transformation, punctual and tangential coordinates, duality. Prerequisite: Mathematics 301.
3 Hours
- Mathematics 460-461. **Advanced Calculus.** Selected topics in vectors, functions of several variables, series, Fourier series, function of complex variables and partial differential equations. Prerequisite: Mathematics 301.
3 Hours each

Mathematics 480-481. **Mathematics Seminar.** Offers independent studies in topics chosen in relation to programs either to extend investigation in fields already studied or to explore areas not covered by other advanced courses.

1 Hour each

Mathematics 510. **Introduction to Graduate Mathematics.** Set theory, cardinal numbers, the well ordering theorem, construction of the complex number system from natural numbers, finite dimensional vector spaces.

3 Hours

Mathematics 520. **Introduction to Complex Analysis.** Complex algebra, analytic functions, Cauchy integral theorem, Taylor and Laurent series, classification of singularities, residue theorem, conformal mapping.

3 Hours

Mathematics 530. **Metric Spaces.** Sequences, continuous functions, equivalence of metric spaces, completeness, separability, Lindelof property, compactness, equivalence of compactness, countable compactness and sequential compactness in a metric space.

3 Hours

DEPARTMENT OF PSYCHOLOGY (PS)

Psychology 501. **Seminar.** Course will stress the effects certain types of abnormal behavior have upon the learning process. Prerequisites: Psychology 231 and Psychology 352.

3 Hours

DEPARTMENT OF SOCIAL SCIENCE (SL)

The student electing a Social Science major in the Master of Arts in Teaching program must complete 18 trimester hours of satisfactory work distributed as follows: Social Science, 400; History, 6 hours (HY. 501 or 502; 503 or 504); Political Science, 6 hours (PO. 451, 452, 453); Sociology, 3 hours (SO. 452, 461, 500).

Nine hours in related fields (Economics, English Literature, Philosophy, Religion) are to be taken as electives or as a minor, and nine hours of education are required. Students with deficiencies in Social Science may be required to remedy these. Such deficiencies will be determined by the Chairman of the Social Science Division.

Political Science 451. **Political and Social Movements.** A study of social movements and their effects upon politics.

3 Hours

Political Science 452. **Western Political Heritage.** A survey of western ideas influencing political behavior from ancient to present times.

3 Hours

Political Science 453. **International Relations.** A study of American participation in international affairs with special emphasis upon international controls.

3 Hours

Social Science 400. **Teaching the Social Sciences.** This course covers teaching aids and methods of social science teaching in the secondary school. Some attention is given to methods in college teaching. Required of all majors and minors in History and of Social Science majors in the M.A.T. program.

3 Hours

Sociology 452. **Criminology.** An analysis of the processes by which individuals become criminals and delinquents, causative factors, techniques of control, accepted methods of treatment and correction, thoughts for further improvement of such.

3 Hours

Sociology 461. **Sociological Theory.** Development and characteristics of sociological theory as related to social structure and society, contributions of European and American sociologists to the development of social thought.

3 Hours

Sociology 500. **Sociology of Religion.** An analysis of religion and its effect on social institutions. Formal class reports are presented.

3 Hours

NON-TEACHING CANDIDATES

The following courses are designed for those candidates not seeking to fulfill certification requirements or to up-grade certificates now held.

Education 501. **Historical Aspects of American Education.** Course covers the historical development of American education and its relationship to the emerging American culture.

3 Hours

Education 502. **Philosophical Aspects of American Education.** Course covers the development of philosophical concepts in American Education and the application of these concepts.

3 Hours

Education 503. **Current Problems in American Education.** Course explores and evaluates contemporary educational problems and the means attempted or employed in solving these problems.

3 Hours

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